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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24737 7590 05/13/2010

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| EXAMINER | |
|---|---|
| CHIO, TAT CHI | |
| ART UNIT | PAPER NUMBER |
| 2621 | |

DATE MAILED: 05/13/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 10/784,533 | 02/23/2004 | Wilhelmus J. Van Gestel | N14818D | 7756 |

TITLE OF INVENTION: RECORDING AND REPRODUCING AN MPEG INFORMATION SIGNAL ON/FROM A RECORD CARRIER

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | NO | $1510 | $300 | $0 | $1810 | 08/13/2010 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

## PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail** **Mail Stop ISSUE FEE**
**Commissioner for Patents**
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**Alexandria, Virginia 22313-1450**
**or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/784,533 | 02/23/2004 | Wilhelmus J. Van Gestel | N14818D | 7756 |

TITLE OF INVENTION: RECORDING AND REPRODUCING AN MPEG INFORMATION SIGNAL ON/FROM A RECORD CARRIER

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|---|---|---|---|---|---|---|
| nonprovisional | NO | $1510 | $300 | $0 | $1810 | 08/13/2010 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---|---|---|
| CHIO, TAT CHI | 2621 | 386-068000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| CHIO, TAT CHI | |
| ART UNIT | PAPER NUMBER |
| 2621 | |

DATE MAILED: 05/13/2010

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 901 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 901 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| Notice of Allowability | Application No. | Applicant(s) | |
|---|---|---|---|
| | 10/784,533 | VAN GESTEL ET AL. | |
| | Examiner | Art Unit | |
| | TAT CHIO | 2621 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *3/2/2010*.

2. ☒ The allowed claim(s) is/are *22-38*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☒ All b) ☐ Some* c) ☐ None of the:
      1. ☒ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. claims 1-21 cancelled

22. A recording arrangement for recording an information signal in tracks on a record carrier, the recording arrangement comprising: an input terminal for receiving the information signal; channel encoding means for channel encoding the information signal into a channel signal, the channel signal including subsequent signal blocks having a predetermined fixed length, each signal block comprising a first block section having a synchronization signal, and a second block section having a number of channel bytes; and writing means for writing the channel signal in the tracks on the record carrier, wherein the information signal is in a form of an MPEG information signal in accordance with an MPEG format, the MPEG information signal comprising subsequent transport packages having a predetermined fixed length, and wherein: the channel encoding means stores information included in x transport packets of the MPEG information signal in the second block sections of a first group of y first signal blocks of said signal blocks of the channel signal so as to enable a normal play mode using video information stored in said first group of y first signal blocks during a normal play reproduction mode; and the channel encoding means further receives a trick mode video signal and stores

said trick mode video signal in second block sections of a second group of z second signal blocks of said signal blocks of the channel signal so as to enable a trick play mode using the video information stored in said second signal blocks, wherein the second block sections of at least one signal block in each first and second group of first and second signal blocks, respectively, comprise a third block section for storing identification information indicating whether the group comprises the first signal blocks or second signal blocks, and wherein x, y and z are integer constants in which x.gtoreq.1, y>1 and z>1.

23. The recording arrangement as claimed in claim 22, wherein the second block sections of the signal blocks comprise a third block section for storing sequence number information relating to a sequence number of the signal block.

24. The recording arrangement as claimed in claim 22, wherein the second block sections of all signal blocks in each first and second group of first and second signal blocks respectively comprise a third block section for storing identification information indicating whether the group comprises first signal blocks or second signal blocks.

25. The recording arrangement as claimed in claim 24, wherein the second block sections of a group of y signal blocks each comprise a third block section for storing sequence number information relating to a transport packet sequence number corresponding to the transport packet of which information is stored in said signal block.

26. The recording arrangement as claimed in claim 22, wherein the recording arrangement further comprises: detection means for detecting the moment of receipt of

the transport packets, and for generating timing information for each transport packet received, and wherein the second block sections of at least those signal blocks in a group of y signal blocks that comprise the start portion of a transport packet comprise a third block section for storing the timing information for said transport packet having its start portion stored in the second block section of the signal block.

27. The recording arrangement as claimed in claim 26, wherein the second block sections of a group of y signal blocks each comprise a third block section for storing the timing information corresponding to the transport packet which has information stored in the second block section of said signal block.

28. The recording arrangement as claimed in claim 22, wherein y>x.

29. A non-transitory computer-readable storage medium comprising a record carrier having an information signal recorded on it in tracks on said record carrier, the signal recorded in the tracks being in a form of a channel encoded information signal, the channel encoded information signal comprising subsequent signal blocks having a predetermined fixed length, each signal block comprising a first block section having a synchronization signal, and a second block section having a number of channel bytes, wherein the information signal is an MPEG information signal in accordance with an MPEG format, the MPEG information signal comprising subsequent transport packets having a predetermined fixed length, information included in x transport packets of the MPEG information signal being included in the second block sections of a first group of y first signal blocks of the channel encoded information signal, so as to enable a normal

play mode using video information stored in said first group of y first signal blocks during a normal play reproduction mode, wherein the information signal comprises a second group of z second signal blocks in which a trick mode video signal is stored so as to enable a trick play mode using video information stored in said second group of z second signal blocks, and wherein indication information, indicating whether a group comprises first signal blocks or second signal blocks, is stored in the third block sections of at least one signal block of the first and second groups and wherein x, y and z are integer constants in which x.gtoreq.1, y>1 and z>1.

30. The non-transitory computer-readable storage medium as claimed in claim 29, wherein sequence number information relating to the sequence number of the signal blocks is stored in the third block sections of the signal blocks.

31. The non-transitory computer-readable storage medium as claimed in claim 29, wherein the third block section of the second block sections of at least those signal blocks in a group of y first signal blocks that comprises the start portion of a transport packet, comprise information relating to a transport packet sequence number corresponding to the transport packet having its start portion stored in the second block section of the signal block.

32. The non-transitory computer-readable storage medium as claimed in claim 29, wherein the third block section of the second block sections of at least those signal blocks in a group of y first signal blocks that comprises the start portion of a transport

packet, comprise timing information for said transport packet having its start portion stored in the second block section of the signal block.

33. A reproducing arrangement for reproducing an information signal that has been recorded in the form of a channel signal in tracks on a record carrier, the reproducing arrangement comprising: reading means for reading the channel signal from a track on the record carrier, the channel signal comprising subsequent signal blocks having a predetermined fixed length, each signal block comprising a first block section having a synchronization signal and a second block section having a number of channel bytes; channel decoding means for channel decoding the channel signal into the information signal; and an output terminal for applying the information signal, wherein the reproducing arrangement is adapted to reproduce an MPEG information signal in accordance with an MPEG format from the record carrier, the MPEG information signal comprising subsequent transport packets having a predetermined fixed length, wherein information contained in x transport packets of the MPEG information signal is stored in the second block sections of a first group of y first signal blocks of the channel signal enabling a normal play mode using video information stored in said first group of y first signal blocks during a normal play reproduction mode, a trick mode video signal being stored in a second group of z second block sections of second signal blocks of said signal blocks of the channel signal enabling a trick play mode using video information stored in said second group of second signal blocks where x, y and z are integer constants in which x.gtoreq.1, y>1 and z>1, wherein the second block sections of at least one first and second signal block in the first and second group each comprise a

third block section for storing indication information indicating whether the group comprises first signal blocks or second signal blocks, and wherein the reproducing arrangement further comprises: first retrieving means for retrieving, in said normal play mode, the video information of the x transport packets of the MPEG information signal from the first group of y first signal blocks, and for retrieving, in said trick play mode, the trick mode video signal from the second group of z second signal blocks, in response to a first or a second control signal, and second retrieving means for retrieving the indication information indicating whether the group comprises first signal blocks or second signal blocks from the third block sections of the at least one signal block in the first and second groups, respectively, the second retrieving means generating said first and second control signals in response thereto.

34. The reproducing arrangement as claimed in claim 33, wherein the second block sections of the signal blocks comprise a third block section for storing sequence number information relating to the sequence number of the signal block, and wherein the second retrieving means retrieves the sequence number information from the third block sections of the signal blocks in said tracks.

35. The reproducing arrangement as claimed in claim 33, wherein the second block sections of at least those signal blocks in a group of y signal blocks that comprises the start portion of a transport packet, comprise a third block section for storing sequence number information relating to a transport packet sequence number corresponding to the transport packet having its start portion stored in the second block section of the signal block, and wherein the second retrieving means retrieves the sequence number

information relating to the transport packet sequence number from a third block section of a signal block in the group of y signal blocks.

36. The reproducing arrangement as claimed in claim 33, wherein the second block sections of at least those signal blocks in a group of y signal blocks that comprises the start portion of a transport packet, comprise a third block section for storing timing information for said transport packet having its start portion stored in the second block section of the signal block, and wherein the second retrieving means retrieves the timing information from a third block section of a signal block in the group of y signal blocks.

37. The reproducing arrangement as claimed in claim 33, wherein y>x.

38. A method for recording an information signal in tracks on a recording carrier, said method comprising the steps: receiving the information signal; channel encoding the information signal into a channel signal, the channel signal comprising subsequent signal blocks having a predetermined fixed length, each signal block comprising a first block section having a synchronization signal and a second block section having a number of channel bytes; and writing the channel signal in the tracks on the record carrier, wherein the information signal is in the form of an MPEG information signal in accordance with an MPEG format on the record carrier, the MPEG information signal comprising subsequent transport packets having a predetermined fixed length, and wherein the channel encoding step comprises the sub-steps: storing information included in x transport packets of the MPEG information signal in the second block

sections of a first group of y first signal blocks of said signal blocks of the channel signal so as to enable a normal play mode using video information stored in said first group of y first signal blocks during a normal play reproduction mode; receiving a trick mode video signal; storing said trick mode video signal in second block sections of a second group of z second signal blocks of said signal locks of the channel signal so as to enable a trick play mode using the video information stored in said second signal blocks; and storing identification information in the second block sections of at least one signal block in each first and second group of first and second signal blocks, respectively, indicating whether the group comprises the first signal blocks or second signal blocks, where x, y and z are integer constants in which x.gtoreq.1, y>1 and z>1.

***Allowable Subject Matter***

1. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a recording arrangement for recording an information signal in tracks on a record carrier. Each independent claim identifies the uniquely distinct features "channel encoding means stores information included in x transport packets of the MPEG information signal in the second block sections of a first group of y first signal blocks of said signal blocks of the channel signal so as to enable a normal play mode using video information stored in said first group of y first signal blocks during a normal play reproduction mode", "the channel encoding means further receives a trick mode video signal and stores said trick mode video signal in second block sections of a second group of z second signal blocks of said signal blocks of the channel signal so as to enable a trick play mode using the video information stored in

said second blocks", and "the second block sections of at least one signal block in each first and second group of first and second signal blocks, respectively, comprise a third block section for storing identification information indicating whether the group comprises the first signal blocks or second signal blocks". The closest prior arts, Lane et al. (5,377,051) disclose conventional recording arrangement for recording an information signal in tracks on a record carrier, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Q. Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./
Examiner, Art Unit 2621

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621